

The owner of Accommodation Tobermory, Alan Parker, was one of the founder members of the Mull Community Woodfuel Group. Having recognised the economic and environmental potential for woodfuel on the Isle of Mull, the group has begun to establish a local cluster consisting of a supplier and users of woodchip. At Accommodation Tobermory, the woodchip boiler provides heat and hot water for three holiday letting properties, a nearby house, and a commercial greenhouse and store, with the option of extending the system to further buildings in the future.



Facts and figures

Boiler: Ala-Talkkari Veto

Boiler output: 60 kW

Heating network: Heat and hot water transferred to the properties by underground pipework

Usage: 75 tonnes p/a

CO₂ savings: 60 tCO₂ (approx)

SUPPLY

Fuel storage: 6m³ capacity

Fuel delivery: Bulk bags



Harvesting

The fuel supply

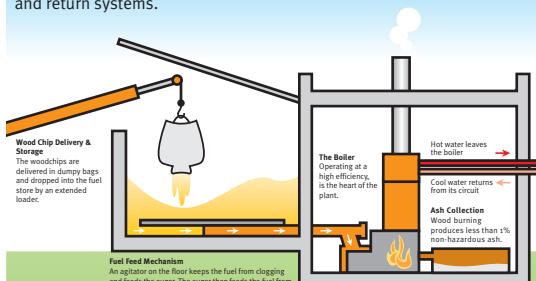
The Woodchip that fuels the boiler at Accommodation Tobermory is sourced locally and processed and delivered by Crannich Woodchip Supply, another founding member of the Woodfuel Group. Both businesses received grant aid to establish their woodfuel projects from HIE Argyll and the Islands, the EU ERDF and Forestry Commission Scotland.

Accommodation Tobermory

Sustainable woodfuel supply and heating

How does a woodfuel boiler work?

Modern installations are fully automated and require minimal attention. The key components are the boiler, fuel handling system, and the flow and return systems.



Sustainable Heating with **WOOD ENERGY**

SCOTLAND



The Woodenergy Carbon Cycle

The trees used for woodfuel are replanted and, as they grow, re-absorb the CO₂ emitted as the wood is burnt. This is a sustainable, clean cycle that produces energy without contributing to global warming.

Trees absorb CO₂ as they grow
Woodfuel provides a good market for poor quality timber

Better quality timber is used by sawmills to produce timber for construction, furniture etc

The timber is dried and processed into an optimal form for fuel such as wood chips
By-products from sawmilling can be used for woodfuel

Modern woodfuel boilers are very efficient and clean. Emissions from the flue consist mainly of CO₂ and water vapour.

The woodfuel is turned into energy in a boiler to provide heat

Some of the uses of Woodenergy:



Offices, retail and leisure facilities



Domestic, district heating schemes and farms



Community and healthcare



Industry and business...
...and green electricity

Why biomass?

Supporting the local economy

- local income stream
- more local jobs than any other renewable energy alternative
- new market for forestry and farming industries
- cheaper fuel prices

Environmental Facts

- renewable energy
- clean and safe to store
- promotes sustainable forest management and so can benefit wildlife

Social Benefits

- local employment
- communities can contribute to their own future energy needs
- helps reduce fuel poverty

What is woodfuel?

Woodfuel is a modern, clean and environmentally friendly alternative to fossil fuels, and is an economic solution for the heating needs of public buildings, industry and business premises, agricultural buildings and households. It comes in many forms including logs, pellets (made from sawdust), and woodchips.

Woodfuel is widely used throughout mainland Europe for heating and power generation and is Europe's most important source of renewable energy providing 51% of all renewable energy.

Trees are planted...



...then harvested as part of...



sustainable wood fuel production



the future for Scotland's wood energy is at www.usewoodfuel.co.uk